

From jimr@maia.usno.navy.mil Mon Jul 9 09:03:19 EDT 2001
 Received: (from jimr@localhost)
 by maia.usno.navy.mil (8.9.3 (PHNE_22672)/8.9.3) id JAA05920
 for gpst; Mon, 9 Jul 2001 09:01:49 -0400 (EDT)
 Resent-From: jimr@maia.usno.navy.mil
 Resent-Message-Id: <200107091301.JAA05920@maia.usno.navy.mil>
 Resent-To: gpst@maia.usno.navy.mil
 Received: from nasa-fw.usno.navy.mil (grandk.bipm.fr [62.161.69.2])
 by maia.usno.navy.mil (8.9.3 (PHNE_22672)/8.9.3) with SMTP id IAA05260
 for ; Mon, 9 Jul 2001 08:28:57 -0400 (EDT)
 Received: from grandk.bipm.fr ([62.161.69.2]) by nasa-fw.usno.navy.mil
 via smtpd (for maia.usno.navy.mil [10.1.3.122]) with SMTP; 9 Jul 2001 12:28:57 UT
 Received: from TAI15 (tai15 [193.104.127.172])
 by bipm.fr (8.8.8+Sun/8.8.8) with SMTP id OAA02099
 for ; Mon, 9 Jul 2001 14:25:17 +0200 (MET DST)
 Message-ID: <01ac01c1086a\$9558b9a0\$ac7f68c1@TAI15>
 From: =?iso-8859-1?Q?G=E9rard_Petit?=
 To: "Jim Ray \ (USNO 202-762-1444\)"
 References: <200107061448.KAA22409@maia.usno.navy.mil>
 Subject: [GPST] BIPM Ashtech Z12T calibration trip
 Date: Mon, 9 Jul 2001 13:30:40 +0200
 Resent-Date: Mon, 09 Jul 2001 9:01:47 EDT
 MIME-Version: 1.0
 X-Priority: 3
 X-MSMail-Priority: Normal
 X-Mailer: Microsoft Outlook Express 5.50.4133.2400
 X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
 Content-Type: text/plain; charset=unknown-8bit
 Content-Transfer-Encoding: 8bit
 Status: RO

An International Campaign to Calibrate Geodetic-type GPS Receivers
 for Time Transfer

An international campaign has been initiated by the BIPM to calibrate geodetic-type GPS receivers of the model Ashtech Z12-T, which are used for time transfer. An absolutely calibrated Z12-T owned by the BIPM visits the participating laboratories to perform the differential calibration of local receivers. The first trip started in January 2001 and is under way. Involved laboratories are the METAS (Bern, Switzerland), the BNM-LPTF (Paris, France), the USNO (Washington DC, USA), the NPL (Teddington, UK), the ORB (Brussels, Belgium), the CNES (Toulouse, France), the CRL (Koganei, Japan). Results of the absolute calibration of the BIPM Z12-T have been published in (White et al. 2001 and Petit et al. 2001a). A general description of the differential calibration method as well as preliminary results from the first two stages, conducted in February 2001 at METAS and in March 2001 at the BNM-LPTF are presented in (Petit et al, 2001b).

Laboratories owning Z12-T receivers and interested in time transfer are welcome to participate. Please contact Gérard Petit (gp Petit@bipm.org). It is anticipated that the calibration of other types of receivers, such as the Javad Legacy, will be also addressed in the future.

J. White, R. Beard, G. Landis, G. Petit, E. Powers, 2001, Dual frequency absolute calibration of a geodetic GPS receiver for time transfer, Proc. 15th EFTF, in press.

G. Petit, Z. Jiang, J. White, R. Beard, E. Powers, 2001a, Absolute calibration of an Ashtech Z12-T GPS receiver, GPS Solutions 4, 4, p. 41. *

G. Petit, Z. Jiang, P. Moussay, J. White, E. Powers, G. Dudle, P. Uhrich, 2001b, Progresses in the calibration of "geodetic like" GPS receivers for

accurate time comparisons, Proc. 15th EFTF, in press. *

* preprint MS/Word files available at
<http://maia.usno.navy.mil/gpst/refs.html>

Gerard Petit
Time section, BIPM
Address: Pavillon de Breteuil
 92312 Sevres FRANCE
Phone: (33)1-45077067
FAX: (33)1-45077059
E-mail: gpetit@bipm.org (Gerard Petit)